

APPLICANT(S): VITSNUDEL, Ilia et al.  
SERIAL NO.: 10/622,355  
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#### AMENDMENTS TO THE SPECIFICATION

Please insert the following paragraph on page 1 of the application as filed before the FIELD OF THE INVENTION:

#### CROSS-REFERENCE TO RELATED APPLICATION

This application claims benefit of US Provisional Patent Application Ser. No. 60/396,323, filed July 18, 2002, the entirety of which is incorporated by reference herein.

Please amend paragraph [0039] in the application as filed as follows:

[0039] ~~Fig. 8 illustrates Figs. 8a through 8f illustrate~~ the companding process in accordance with a preferred embodiment of the present invention.

Please replace the abstract with the following abstract:

A method for enhancing wide dynamic range in images. The method comprises: acquiring at least two images of a scene to be imaged, the images acquired using different exposure times; constructing for a first image an illumination mask comprising a set of two weight values distinctively identifying respective areas of pixels of high or low illumination, over-exposed or underexposed with respect to a predetermined threshold illumination value, assigning one of the values to each pixels in them, whereas the other value is assigned to other pixels of the other images; using a low-pass filter to smooth border zones between pixels of one value and pixels of the other value, thus assigning weight values in a range between the two weight values; constructing a combined image using image data of pixels of the first image and image data of pixels of the other images proportional to the weight values assigned to each pixel using the illumination mask.